CARB Request to USEPA for FY18 California-Mexico Border Funding

Project Name	Description	FY17 Amount	FY18 Requested	Rank	Rank Justification
Imperial County real-time website	We annually fund CARB to conduct air quality forecasting and operate / maintain the Imperial Valley AirNow website.	$100K	$100K	1	Public notification of air quality extremely important
Mexicali PM2.5 Study – Phase II	U.S. EPA provided a grant to CARB for PM2.5 monitoring in Mexicali Mexico. So far, the data collected has been valuable in understanding the sources and extent of pollution levels in Mexicali and the impact to attainment of the PM2.5 NAAQS across the border in Imperial County. After 24 months of continuous monitoring and sampling, this monitoring concluded on April 20, 2018. CARB would like to reinitiate continuous monitoring of PM2.5 and periodic speciation sampling for another 24 months including operation and maintenance of the equipment, data review, validation and reporting, and quality assurance. In support of this proposal, CARB will provide in-kind resources for the chemical analysis of PM2.5 speciation samples from one site and data analyses of the entire data set. The Mexicali PM2.5 monitoring provides real time air quality information that is useful to for residents on both sides of the border.	N/A	$400K	2	Providing air quality information to Mexicali residents important. Residents may change practices to improve their own air quality. This translates to improved air quality in Imperial County
Add real-time speciation capabilities to Calexico monitor site	Augment the current suite of instruments at the Calexico site with a real-time X-ray fluorescence (XRF) monitor to measure airborne metals. The acquired data would increase the temporal resolution from the current 1-in-6 day speciation sampling schedule, coupled with delays due to off-site laboratory analysis, to continuous data from an on-site field instrument. The increased resolution would aid in identifying cross-border emission sources impacting Calexico and other areas of Imperial County. The complexities associated with operating a real-time XRF instrument, together with processing the data, necessitate funding dedicated to data review, in addition to instrument purchase and operation. This would provide for either ARB resources or contracting out with a university or contractor to one year of data collection. Approximately $120/year would be needed to continue program in subsequent years.	N/A	$270K (placeholder amount)	3	Time-resolved elemental analysis will help evaluate the composition of PM and identify sources of hazardous metals impacting areas north of the U.S.-Mexico border.

Purchase new camera to identify desert lands and dust plumes contributing to windblown dust	Need for additional camera relates to two goals: 1. identifying those portions of desert lands in the southwest corner of Imperial Valley that are sources of significant windblown dust during high wind events, and 2. assessing the sources and rates at which sand is released in the mountains to the west of the Valley and transported to the Salton Sea shoreline by natural erosion processes.	N/A	$20K (placeholder amount)	4	The cameras will help with identifying dust sources. Both high dust levels and the Salton Sea are issues with the community
Collaboration among regulatory agencies on Salton Sea	Collaboration among officials from South Coast, Imperial County APCD, CARB, and EPA to discuss Salton Sea air quality issues, etc. May include meeting(s).	N/A	$10K (placeholder amount)	5	All parties need to work together to mitigate the Salton Sea